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1972-73 Career Education Students and Their

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ABSTRACT

This study was intended as a pilot project to design a method and computerized system for collecting, analyzing, and reporting information about the degree to which students in career occupational programs achieve their objective of attaining marketable skills. First, the 4,895 students enrolled in the 52 career education programs at Miami-Dade Community Collège in 1972-73 were carefully screened on the basis of several different criteria to arrive at a survey population of 2,039. A total of 1,312 of these were matched with Department of Commerce employment records and the records of a previous graduate survey to obtain a printout of employer names and addresses, weeks worked, and earnings. To collect program evaluation data, two basic survey instruments were designed and mailed to former students with predetermined employment address information, and to those without such information. In addition, 915 surveys were mailed to the employers of respondents who had given or implied consent for their employers to be surveyed. In general, respondents to o both the student and employer surveys gave favorable ratings to the career programs and to the academic and career preparation given to students at Miami-Dade. Tables of survey data are included, and the methodological limitations of this type of study are discussed.

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AN EMPLOYMENT STUDY OF

MIAMI-DADE COMMUNITY COLLEGE

1972-1973 CAREER EDUCATION STUDENTS

AND THEIR EMPLOYERS

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AN EMPLOYMENT STUDY OF
MIAMI-DADE COMMUNITY COLLEGE
1972-73 CAREER EDUCATION STUDENTS
AND THEIR EMPLOYERS

Custave G. Wenzel & Hal Corson Miami-Dade Community College

Henry F. Raichle & Richard D. Pate Consultants

Miami-Dade Community College Miami, Florida June, 1975

TABLE OF CONTENTS

																	•		٠.				a.		Page
LIST (OF	ILLU	ST	RAI	CIC	2NC	3.	•	•	•	•	•	•	•	•	,	•	•	•	•	•	•	•	•	iv
LIST (OF,	TABI	ES		•	•		٠	•	·	•	•	٠	•	4	,	•	•	•	•	•	•	÷	•	v
ACKNO	WLE	DGE	IEN	TS ·	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	vi
Secti	on																					٠			
1		BAC	KG	ROE	INI), (F	T	ΗE	S	TU	DΥ	A	N'D	P	U	RP	08	ES		•	•	•	•	. 1
2		MET	ЭНО	DS	AN	ID	PF	80	CE	D U	RE	s.	•	Ą	•	•	•	•	•		•	. •	•	•	4
3		RES	UL	TS	•	•	•	•	•	•	٠	•	•	•	•	ď	7	•	•	•	•	•	•	. .	12
4,		SUN	AMI	RY	A	ND	Cé	ONC	CL	បន	IO	NS	٠	هي '		Ð,	•	•	•	•	•	•	•	•	26
Appen	dix																								
A		FOF	ME	R . S	IŢ	ĴDE	ENT	r :	sv	RV:	E¥	F	OR:	MS	A		AN	D	В	•	•	•	•	•	31
. В		EMÉ	LO	YEF	` .	U E	ZV I	Y		•	•	٠	•	•	•		•	•	•	•	•	•	•	•	36
С		RES						_				S'	TU:	D E	nt •	S	•	Y	C A	RE	E	-		•	39
D		RES AÑI																	II	em.	•		•	•	52
E		ALI TRI QUE	BU	TIC	N	OF	? 5	SAI	MP	LE	S:	וטיו	DE	NT	S	A	ND.								56
F		DIS	TR	IBU	ΙΤΊ	O	1 () F											•			•	•	•	59



LIST. OF ILLUSTRATIONS

	Pa	ţē
Figure	e.	
1 .	Population Description	5.
2	"Survey of Former Students," Form A Group, meilout end returne	9 .
3	"Survey of Former Students," Form B Group, meilout end returns	D
4	"Employer Survey," meilout and returne 1	1
5	Survey Population Cherecteristics 1	3



LIST OF TABLES

•		Pags.
Table		
1	Summary of All Responses to the "Survey of Former Students"	14
. 2	Summary of All Responses to the "Employer Survey"	1,8
3	Summary of Median Annual Earnings of Former Students Currently Employed	21
4 .	(Series) An Item Analysis of Responses from Former Students	40
5	(Series) Summary of Responses to the "Survey" of Former Students"	53
6	Alphabetical List of Programs	5 7
7	Distribution of Sample Students and Questionnaire Respondents by Program	58
8	Distribution of Student Respondents by Credits, Earned	6Q

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Within the College, recognition should be given to the staff of the Computer Center. Mr. Harold Harper, sytems analyst, designed the computer records system for this project. Recognition should also go to the computer programmers respensible for creating the system and to that key punch operators for the skill and efficiency with which they provided fast turnsround earvice so necessary to a research project of this magnitude.

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Section 1

BACKGROUND OF THE STUDY AND PURPOSES

Miami-Dade Community College is a publically-supported two-year college which offers a variety of educational opportunities to participating students. This large multicampus community college enrolled some 28,025 credit students in its instructional program during the fall of 1972, with 13,072 students in college parallel, 4,652 students in career-occupational, 1,795 students in allied health, and 8,056 students in general and special programs.

This study focuses on an evaluation of the carearoccupational programs--52 two-year technical/vocational,
business, and occupational education programs--in terms
of feedback from former students and their employers.

Little objective information concerning the employment of former students in occupational programs is available from previous college-wide research, since earlier studies have barely touched on this area. Even when the area of employment has been touched upon in previous studies, the focus has been only on graduates, rather than on all students who anroll in these programs. Little attention has been given to the contribution of the College program in assisting these former students to obtain marketable skills.

Within the College, it has long been recognized that there is a need for objective information from former students in occupational programs and from their employers concerning the degree to which the College has assisted the



atudents in achieving marketable ekills.

It can be asserted that the collection of data in educational institutions is generally directed towards the accountability for expenditures rather than the accountability for attaining objectives. The public is becoming less and less inclined to accept data on such resources as facilities, staff, and materials as evidence of the value of educational programs.

Cognizant of this trend, the present atudy was designed to determine the degree to which: 1) M-DCC is meeting its stated objectives for career-occupational progrems, 2) a students in career-occupational programs attain their objectives of attacking marketable skills for employment and profit from their experiences at M-DCC, and 3) former students and their employers rate the College contribution in preparing students for employment.

The purposea of this atudy may be further operationally defined as having provided some answers to the following questions:

- 1. How do former students rate the preparation for employment provided by the educational program at Miami-Dade Community College?
- 2. How do employers of former students rate the preparation for employment provided by the educational program at Miami-Dade Community College?
- 3. To what extent did the students feel their

M-DCC career program helped them in terms of employment, promotion opportunities, and job satisfaction?

- 4. What income levels have former students achieved?
- 5. Are there differences in income level and job eatisfaction between progrem graduates and non-graduates?
- 6. Did the students gain stable employment in a job related or unrelated to their field of study?
- 7. To what extent do former students indicate.

 involvement in activities other than gainful
 employment, such as recoming, a full-time
 homemaker or pursuing further education elsewhere in the same or different fields?
- 8. To what extent do former students who had taken only a limited number of courses (30 credits or less) to gein additional knowledge or skills in their work consider themselves as having profited from their educational experiences at Mismi-Dade Community College?

In addition, a major purpose of this study was to determine the kinds of follow-up data that could be obtained, to develop an efficient system for collecting end analyzing these data, end to report information useful for management decisions.

Section 2 %

METHODS AND PROCEDURES

A special computer-based tape file was designed and created for this project with appropriate data elsments extracted from the College student records system. Provision was made for adding additional data to the file as it was collected for the study. This file provided one record for each former student with all of the data elements related to the study which, in turn, provided the source for later tabulation and analysis of the descriptive variables in conjunction with the surveys.

The method for selecting subjects for this survey is illustrated in Figure 1, page 5. From the total of 4,895 students chrolled in the College in career education programs in the fall of 1972, a selection was made to delete those students who either changed to an educational program other than carear education and/or continued their education at the College after the 1972-73 academic year. This procedure left a total of 2,284 students who did not re-enroll at the College after the 1972-73 academic year.

A second selection was made to delete from the sample those students with out-of-country mailing addresses, those without current addresses, and those who withdrew from the College during the fall term of 1972 without having earned any credit (as indicated by student records with credit hours attempted = 0). This procedure reduced the survey sample to a final total of 2,039 students.

From the method of sample selection, it may be seen

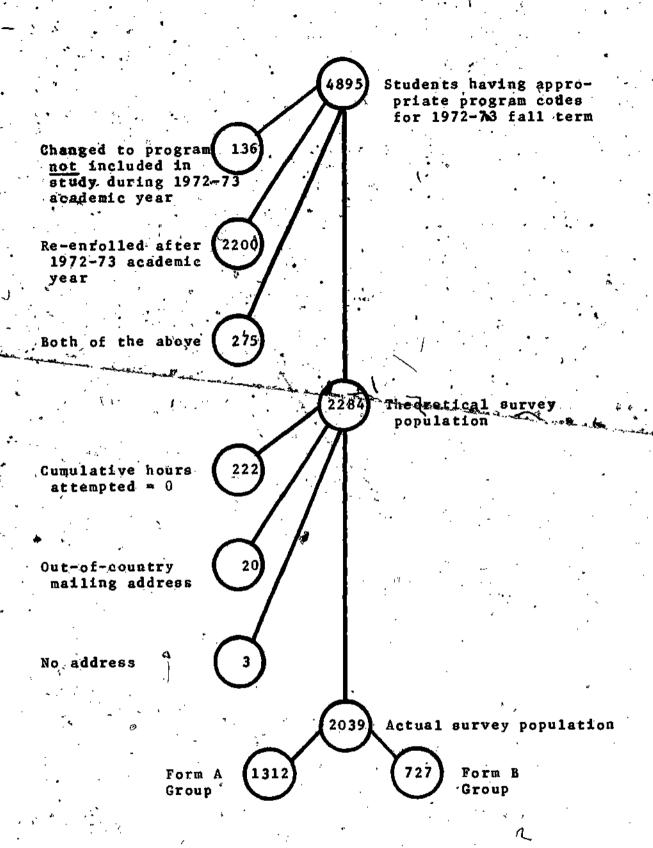


Figure 1--Population description. Numbers in the circles represent actual numbers of former students and the method of selecting them for inclusion in the survey population.

that an important feature of the design of this study was that it yields a partial cross-sectional glimpse of what happens to career-occupational students from a given fall term who did not continue their enrollment at the College beyond the 1972-73 academic year. The study was considered only partially cross-sectional because it involved only 'those students who did not re-enroll. This approach was selected in order to provide the most current information from former students and their employers on the degree to which partial or full completion of their career-occupational programs aided them in reaching toward career goals. One of the limitations of the partial cross-sectional design used in this study was that the results do not provide any basis for estimating stadent retention or graduation rates, and no such inferences should be drawn from these results.

Portions of the computer tape records of those students with Social Security Numbers were extracted and a second tape created in a format specified by the Plorida Department of Commerce. This second tape was forwarded to the Department of Commerce and matched against the employer quarterly reports for the second, third, and fourth quarters of 1973 and the first and second quarters of 1974.

From this records match, a printout of employment data was obtained on each of the former students so matched. The printout included employer name(4) and address(es), weeks worked, and earnings for each quarter.

Of the 1,817 student records sent to the Department of Commerce, a total of 1,279 or 70.4 percent were matched with employment records. These students were designated as the Form A Group in Figure 1. Employer names and addresses, plus student earnings data, were input to the magnetic tape records for each matched student for later processing, including the generation of employer name and address labels. Employer name and address records for an additional 33 students were extracted from records of a previous College survey of graduates, and their records of employers were added to the magnetic tape records. The addition of these 33 students to the 1,279 from the match with Department of Commerce records brought the Form A Group total to 1,312, as indicated in Figure 1.

The unmatched records from the second tape were merged with those of students without Social Security Numbers, and these students were designated as the Form B Group in Figure 1, indicating that employer data was not available for these students.

Two basic survey questionnaires were developed to collect program evaluation data in addition to the earnings data obtained from the Unemployment Division of the Florida State Department of Commerce.

A "Survey of Former Students" was designed in two forms (See Appendix A). Form A was used for former students with predetermined employer address information obtained from the Florida Department of Commerce or a previous graduate survey. Form A provided spaces for a

computer-generated student and employer name and address
labels. Form B of the "Survey of Former Students" was a
modification of Form A and was designed for use with those
former students without current employer address information on file. Thus, Form B was designed to collect this
employer data. Both surveys were mailed on November 22,
1974, with a follow-up reminder on December 6, and a final,
return date of December 16 indicated on the questionnaires.
Figures 2 and 3 illustrate the procedures followed, the
actual number of students surveyed and the forms returned
from the Form A and Form B Groups.

The combined totals from both groups indicated a survey mailout to a total of 2,039 students with a total of 633 or 31 percent of the surveys returned by the Post Office as undeliverable, leaving a balance of 1,406 potential student respondents. This balance was comprised of 956 students from the Form A Group and 450 from the Form B Group. In terms of percentages, the response rate for the Form A Group was 43 percent (414 respondents), compared with 34 percent (155 respondents) for the Form B Group.

Of the combined total of 1,406 potential respondents, \$69.2 or 40 percent returned the survey.

A statement on the Form A survey indicated that implied consent to contact the employer of record would be assumed if the student had not returned the questionnaire by the specified date. This technique provided a basis for contacting employers of the students in the Form A Group who did not return the student survey and whose

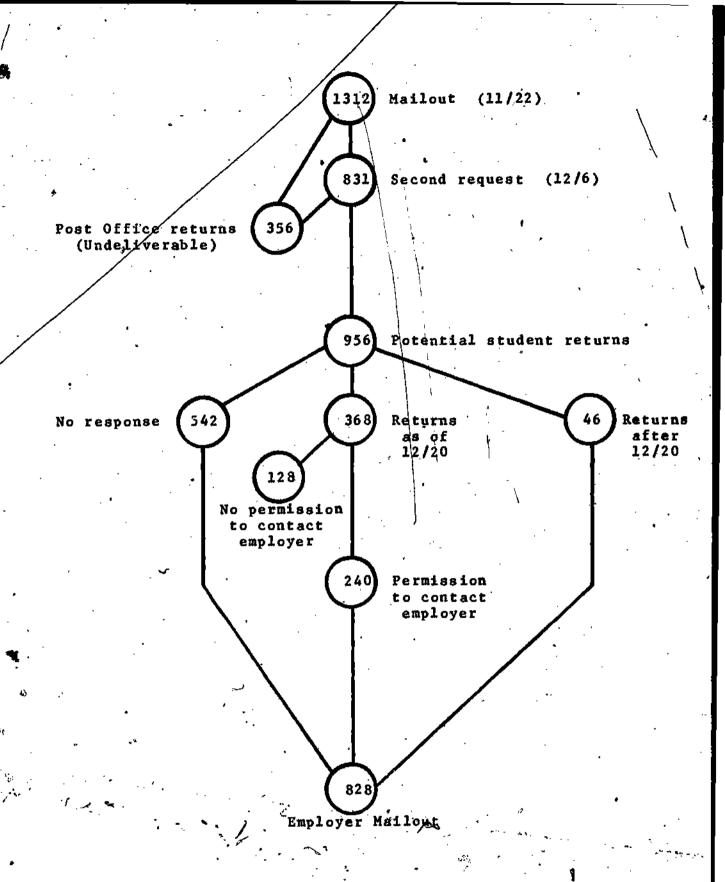
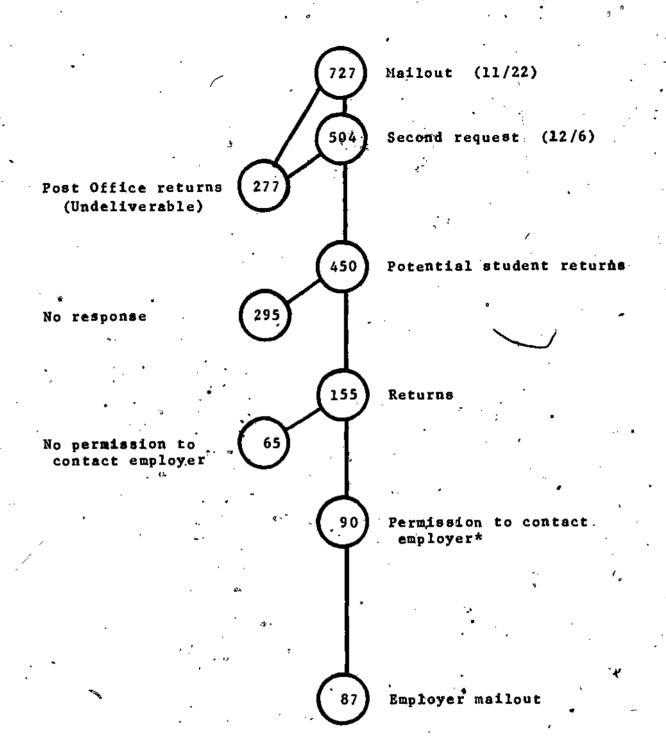


Figure 2--"Survey of Former Students," Form A Group, mailout and returns.



*Includes 3 positive responses which were received after the cutoff for the employer questionnaire mailout.

Figure 3-- "Survey of Former Students," Form B Group, mailout and returns.

surveys were not returned by the Post Office as undelivereble. On the basis of the implied consent, plus the returns from students in Groups A end B with expressed
permission to contect employers, a total of 915 employers
were surveyed.

The number of employers surveyed represented 65 percent of the 1,406 students whose employers, if eny, might potentially have been surveyed on the basis of evailable employer names and addresses. Figure 4 illustrates the procedures used and the rate of return of the "Employer Survey."

Of the 915 surveys mailed to the employers, 14 (1.5%) were undcliverable. Of the 901 potential employer returns, 648 (72%) were returned.

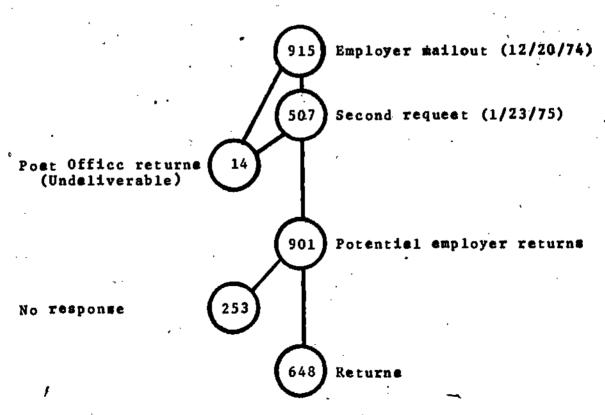


Figure 4--"Employer Survey," meilout end returne.

Section 3

RESULTS

Description of the Sample

Figure 5, page 13, illustrates the characteristics of the 2,039 students to whom this study was addressed. From Figure 5 it is noted that: (1) the population was predominately male (66.4%); (2) the largest age group was the 16-20 year olds, followed closely by the 21-25 year olds; (3) over three-fourths (77.8%) were Dade County residents at the time of registration; and (4) an elmost equal proportion (78.8%) were U. S. citizens. A further description of the sample in terms of the distribution of students by program is provided in Appendix E.

Results

In interpreting the following results, it is well to keep in mind that these are based on responses from students who have completed from one course to several terms. Distribution of the 569 respondents by the credits sarned is shown in Appendix F.

Table 1, page 14, displays a summary of \$11 responses to the "Survey of Former Students." This table reports the number of former M-DCC students responding to each survey item and the precentage response distribution based on the total number responding to a given item. Although a total of 569 former students returned their survey questionnaires, the number of responses to individual items. varied considerably. Of the items common to both Form A and Form B, the number of students responding to individual



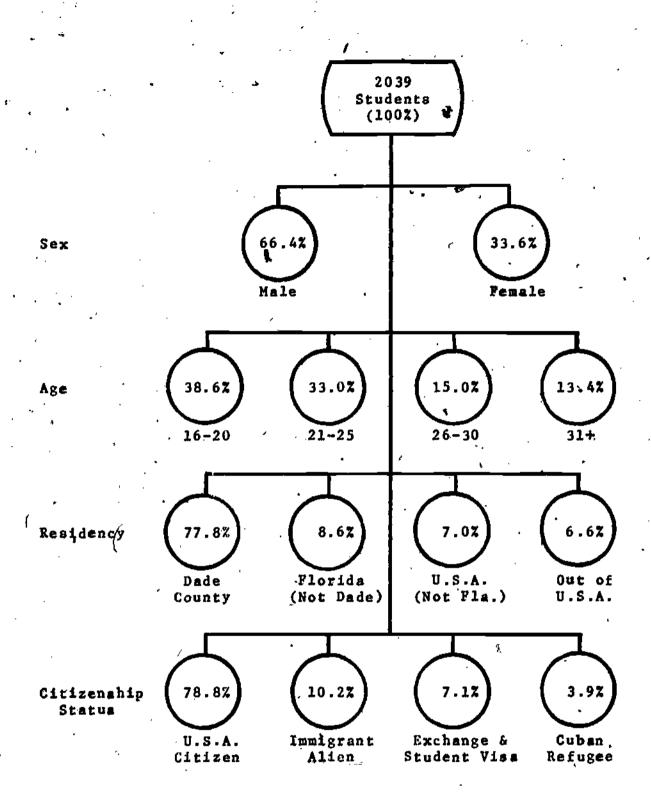


Figure 5--Survey population characteristics.

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52 37.1

related job

co leave

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Items 5 thru 10 ere exerence whith might describe how your cereer program at H-DCC has helped you. Rieses react to these exerence by marking the boxes excording to the following stale:

_	stsle:					
	•	•	egree	42744	disegras	strongly disegree
	I had a better thance of being deployed.		163 - 34:8	199 42.5	78 16.7	- 28 6-0
Item 6.	I had a better chance of getting into the field that I wanted.		.141 39.1	185 39.5		35 7.5
ltem 7.	I have hed more opportunity for job promotion.	X	103 22.0	. 41.1	131 27.9	42 9.0
0	I have been able to perform job tacks re- quiring a higher level of ckills.	2	116 24.8	726 48.2		26
	'i em earning a higher salary.	N C	88 19.3	177 38.8	131 28.7	60 13.2
	I am more satisfied with my job.	N	120 . 26.8	187 41.7	99 22.1	42 9.4

Please rate the following espects of your cersor program at H-DCC by marking the boxes actording to the following scale:

		<u>e</u> :	zcellent .	<u>zood</u> "	fair.	poor
Item II.	Quality of instruction.	N Z	171 33.9	256 50.6	67 13.3	11 2.2
lten 12.	facilities and equipment.	N Z	244 47.6	209 40.8	52 10.2	7
leca_13.	Coverage of ekills needed for job.	n Z	101 20.3	237 47.6	128 25.7	32. 6.4
lten 14.	Coverage of knowledge needed for job.	N X	108 217	241 48.4	120 24.1	29 5.8
Item 15.	Emphésis on practital applications.	n 2	90 18.	214 42.7	136 27.1	61 12.2

Item 16. Before enrolling for my career program at M-DCC. I had

	never worked at a joi	,
never worked	related to my career pro	1
42	247	
9.0	52.9	

Profra

Worked at a jub releted to my career program:

for less than	for a year or more
50	128
10.7	27.4

items ranged from 448 to 531.

Item 1 appeared somewhat differently on the two student questionnaires (Form A and Form B), but these items are identified in Table 1 by Items 1A and 1B. Similarly, Item 2A contains only data from the Form A Group respondents.

Seventy-two percent of the students responding gave M-DCC permission to contact their employers regarding their former career occupational programs. Item 3 reflects the employment status of reapondents during the survey period November--December, 1974. This was a period when Florida unemployment rates ranged from 7.1 to 8.3 percent.

Respondents in jobs from slightly related to directly related to their M-DCC occupational programs amounted to 71 percent, while 29 percent were in jobs unrelated to their programs. Over one-third (37%) of those in unrelated jobs said they were "out-of-field" because they were unable to get a related job.

Two-thirds to over thres-fourths of the respondents indicated a positive feeling about the degree to which their M-DCC career program had helped them in their employment opportunities and job setisfaction.

The quality of instruction at M-DCC was given a very positive assessment with 85 percent of the responding former students indicating an excellent or good rating. Thirty-nine percent gave a poor or fair rating to "emphasis on practical applications in their program."

Slightly more than half (53%) of these former students



had never worked at a job related to their career program prior to their enrollment at M-DCC. Of those having previous jobs with related work experience, 28 percent worked at these jobs for less than a year and 72 percent for more than a year.

Of the 569 survey returns, 349 former M-DCC students responded to Items 17 and/or 18 with written comments.

Following is a synopsis and interpretation of those comments:

- 81 (14.2%) former students suggested that courses should be added, dropped, or changed in various departments of the College.
- \cdot 78\((13.7%) students felt that M-DCC was A-OK.
- 73 (12.8%) students felt quite strongly that there was a definite need for additional practical know-ledge and/or applications regarding their career fields.
- 18 (3.2%) students felt that their instruction and/or instructors could have been improved.
- 16 (2.8%) students felt that their career counseling could have been improved in the areas of potential salary and/or job availability.
- 15 (2.6%) students felt that their required curricula outside their career program was either a waste of time or nonrelevant; i.e., they felt that they were only attending to improve their employment skills in their chosen programs.
- 12 (2.1%) students expressed a definite desire for an internship program or related on-the-job training.
- 10 (1.8%) students commented that they could not secure related employment. Some felt that M-DCC was training far more students than employment demands would indicate a need for in a given field.
- 4 students indicated that they wished not to be bothered!
- 2 students felt that a complete new program was needed.

Only one student responded with, "My career program was poor."

Several respondents indicated the feeling that evan though they were not presently employed in a field related to their career program, they nevertheless received beneficial training and qualifications that helped them secure satisfactory employment.

Numerous students made comments at the bottom of the questionnaire near the THANK YOU FOR YOUR COOPERATION, such as, "You are welcome," "Thank you for letting, me respond," and "Thank you for this opportunity."

Copies of these comments will be made available to the appropriate program directors for their consideration.

Table 2 displays a summary of responses to the "Employer Survey" from 605 employers. All, except 53, employers either were currently or formerly employers of M-DCC students (graduates or non-graduates) at the time of the survey administration.

Very positive ratings were given to the academic and career preparation of former M-DCC students. Three-fourths to 86 percent of the employer ratings were either excellent or good. Highest marks were given to "ability to get along with others" and "ability to communicate with others." The lowest mark was given to "performance of job akills from the beginning of employment" with one-fourth of the employers rating the item fair or poor.

Of the 648 employer survey returns, approximately one-third responded to Itema 10, 11 and 12 requesting comments about M-DCC programs. These comments ranged from an extremely favorable reaction to the programs, to constructive criticism, to a few negative comments about certain programs. The following is a synopsis of

TABLE 2. Summery of all responses to the "Employer Survey"

All, percentages are bessed on number of employers responding to a given item, but in addition, the percentage bess for items 3 thru does not include "does not apply" responses.

Item 1. Is the person whose name spacers on the label below presently in your amploy?

 Yes
 so
 total responding

 N
 365
 240
 605

 X
 60.3
 39.8
 100.0

 VMI
 100.0
 100.0

Item 2. If no, wee this person diver employed by your organization?

 yes
 no
 total responding

 N
 183
 53
 236

 X
 77.5
 22.5
 100.0

Within your own supervisory experience, please indicate your rating of this setson's preparation at Hismi-Dade Community College by marking the bexes according to the following scale:

	,	9	xcmllent	good	fair	Poor .	dose met
Item 3.	Depth of knowledge in the verious erems required by the job.	X	122	225 51.3	71 16.2	20	31
Item 4.	Understanding of the theory behind the tesks performed.	K	127 28,5	219 49.1	78 17.5	22 4.9	26
	Performence of job ekille from the beginning of em- ployment.	X	120 27.0	213 47.9	99 22.2	13 2.9	25
Itta 4.	Femiliarity with any equipment re- quired by the job, from the beginning of employment.	ĸ	127 29.3	212 49.0	71 16.4	23 5.3); }
Item 7.	Renge of knowledge ,required by the job.	n	120 27, 1	221 50.1	85 19.2	16 3.6	28 '
Ttee 8.	Ability to commu- nicete with othere.	8 X	167 36.6	203 45.0	5 8 12.7	26 5.7	. 19
ltem 9.	Ability to get along with co-workers.	ĸ	201 44.2	189 41.5	52 11,4	13 2.9	f1



these generalized comments,

- 52 (8.0%) employers responded that the present employment of the former student did not relate at all to their career training at M-DCC.
- 30 (4.6%) employers felt that the employment preparation was very satisfactory with a typical comment such as: "Your graduates have proven to be some of the best employees in our Research and Development Department. My compliments to your staff."
- 22 (3.4%) employers felt that both additional written and verbal communication skill training would be beneficial.
- 15 (2.3%) employers felt that a more realistic (less theoretical) approach to the real work would be advantageous.
- 8 (1.2%) employers felt that human relations and inter-personal relationships should be stressed with a typical comment such as: "Stress should be placed upon ability to get along, with both other employees and the company. A person can be an ace pilot, but have the personality of an alligator and no one wants him around. I do find that there are too many employees who just have a 'give me' and 'to hell with you' attitude."
- 6 (0.9%) employers stated that the former students were only temporary employees, while attending M-DCC, and felt it was unfair to evaluate them on their program.

Several employers stressed the need for on-thejob training and/or an internship program to give the students a better understanding of what the job requirements would be.

Numerous employers also felt that within the classroom experiences, the students could benefit greatly from more job-related training.

Employers of civil service types felt that emphasis should be added in a community involvement program for their prospective employees.

A few of the employers felt that a more concentrated basic math program was needed.

Less frequent comments from employers included suggestions that the College provide:



- . Job estimating and job bidding training.
 - Uniformity between classes and/or instructors in the same course
- . More laboratory experiences
- . Updated curriculum material
- Information on proper dress for interviews
- . More skills practice
- . Mandator counseling for career planning
- . Accident investigation
- . More stress on organizational management

 Copies of these comments will be made available to

 the appropriate program directors for their consideration.

Table 3 summarizes extrapolated median annual salaries of former students by career program for those programs on which these data were available for 20 or more students and for the total group of students on whom these data were available. The note in the heading of Table 3 explains the method of extrapolating salaries. Highest median annual earnings were made by former students of Police Science and Criminology (\$11,315), Electronics Technology (\$9,863), and Air Conditioning and Refrigeration Technology (\$9,256). These median incomes were earned less than two means after leaving Miami-Dade Community College.

Although it was felt that a sample size of less than 20 students was not a large enough sample to be representative of a given program, it is worthy to note that 5 students in Building and Construction Technology had an

TABLE 3. Summary of median annual earnings of former students currently employed

Note: Data is shown by program of study for those programs having 20 or more students with earnings information. Estimates of annual earnings were computed for each former student having 1974 second quarter income data by extrapolating in the following manner:

Estimated annual earnings = earnings x 5:

. P	rogram Code	Program	Median Annual . Earnings	Number of Students Having Earnings Data
-	84	Police Science and Criminology	\$11 ,3 15	119
	56	Electronics Technology	9,863	. 43
	52	Air Conditioning & Refrigeration Technology	9,256	27
4	81	Marketing	8,7 27	21
21	90	Aviation Administration	8,431	39
•	77	Business Administration	8,335	5 4
2	66	Flight Pilot	8,026	46
29	69	Radio/Television Broadcasting Technology	7,627	. 23
	62	Mortuary Science	7,567	41
	55	Electronic Data Processing Programming	7,355	. 55
	76	Accounting	7,243	68
	86	Secretarial Science	6,463	117
	87	Interior Design	5,777	27
	78	Fashion Design	5,759	29
u'	-	All Other Programs	7,871	262
	.`	TOTAL	7,862	971

extrapolated median salary of \$16,744; 11 former students of Fire Science Technology had a salary of \$15,301; 17 former students of Management and Supervision had a salary of \$13,863; and 5 former students in Electrical Distribution had a salary of \$12,067.

Table 4, Appendix C, pages 40 to 51, presents a series of tabulations yielding detailed item analyses of responses from former students by career program. Breakouts in Table 4 are by graduates and non-graduates and by sex-age groupings. Only those programs with 20 or more respondents are reported in Table 4.

Table 5, Appendix D, pages 53 to 55, also presents a series of tables yielding a detailed item analysis by item across career programs. Only those programs with 20 or more respondents are reported in Table 5.

The following observations are presented as answers to the eight questions posed by this study in Section 1.

 Former students gave high ratings to their preparation for employment as a result of their educational program at Mismi-Dade Community College.

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- 84.5% of the student respondents rate the quality of instruction good or excellent.
- 88.4% of the respondents rate the facilities and equipment good or excellent.
- 70.1% of the respondents rate the coverage of knowledge needed for the job good or excellent.
- 67.9% of the respondents rate the coverage of skills needed for the job good or excellent.
- 60.7% of the respondents rate the emphasis on practical applications good or excellent.

 Employers of former students also gave high ratings to the College's efforts to prepare students for employment.

85.7% of the employer respondents rate the ability to get along with co-workers good or excellent.

81.6% of the respondents rate the ability it communicate with others good or excellent.

79.2% of the respondents rate the depth of knowledge in the various areas required by the job good or excellent.

78.3% of the respondents rate the familiarity with any equipment required by the job, from the beginning of employment good or excellent.

77.6% of the respondents rate the understanding of theory behind the tasks performed good or excellent.

77.2% of the respondents rate the range of knowledge required by the job good or excellent.

74.9% of the respondents rate the performance of job skills from the beginning of employment good or excellent.

3. Career occupational students felt that their College program aided them significantly in terms of securing employment, promotional opportunities, and job satisfaction. As a result of their career program at M-DCC:

77.3% of the student respondents had a better chance of being employed.

68.5% of the respondents were more eatisfied with their job.

63.1% of the respondents had more job opportunity for promotion.

4. Extrapolated income levels achieved by former students one year after leaving Miami-Dade Community College ranged from \$5,631 to \$15,301 annually. Table 3, page 21, reports these median annual salaries of former students from 14 career programs. Those median salaries reported had at least 20 former student earnings records per occupational program available in order to be included in the tabulation.

5. Extrapolated median income levels of program graduates were higher in some instances than non-graduates and lower in others. Median income levels were higher for program graduates of Secretarial Science, Mortuary Science, Electronic Data Processing, Electronics Technology, and Radio and TV Broadcast Technology.

Non-graduates had higher median annual salaries in the fields of Police Science and Criminology, Accounting, Pilot (Flight) Program, Aviation Administration, and Fachion Design. Income differentials among former students, while somethat informative, should be viewed with the limitations inherent in their calculation.

Graduates reported slightly higher job satisfaction than did non-graduates. 75.6% of the program graduates responding agreed they were more satisfied with their job as a result of their M-DCC.program vs. 71.9% of the non-grad-, uates' response to this item.

- 6. Full-time or part-time employment was achieved by 83.8% of the student respondents with over half (55.1%) employed in a job at least somewhat related to their career program.
- 7. A number of former students, indicated that they were involved in activities other than full or part-time employment. Some of the respondents indicated that they were involved in these activities in addition to full or part-time employment.
 - Of those responding:
 - ,13.0% were continuing achool part-time.
 - 12.1% were continuing school full-time.
 - 6.8% were unemployed and looking for work.
 - 3.4% were full-time homemakers.
 - 3:2% were unemployed and not looking for work.
 - 1.7% were in military-service.
- 8. Responses from former students who had taken a limited number of courses (30 credits or less) were also positive about the extent to which their occupational programs helped them in their careers.

67.7% of these respondents had a better chance of being employed.

60.4% of these respondents were able to perform job tasks requiring a higher level of skills.

58.9% of these respondents had a better chance of getting into the field they wanted.

55.6% of these respondents-were more satisfied with their job.

51.9% of these respondents had more opportunity for job promotion.

43.4% of these respondents were earning a higher salary.



Section 4

SUMMARY AND CONCLUSIONS

Briefly stated, this study was intended as a pilot project to design a method and system for collecting, analyzing, and reporting information about the degree to which atudents in career occupational aducational programs achieve their objectives of attaining marketable skills for employment. Other purposes of the study were described in more detail in the form of a series of questions that might be asked in evaluating the outcomes of these educational programs. Questionnaires were carefully designed to obtain information and ratings from former students and their employers in a relatively atraightforward and objective manner. A computer system was designed and developed to facilitate questionnaire distribution by mail and the analysis of responses in conjunction with other data extracted from the College student records systems and earnings data obtained from the Florida Department of Commerce.

In addition to the earnings data for which the Florida Department of Commerce was the sole source, it is also worthy of note that this source provided 90 percent of all employer names and addresses of former atudents that were available for this study. Furthermore, on those student aurvey questionnaires that included employer names and addresses (Form A), a 30 percent higher response rate was achieved. These observations illustrate the tremendous contribution made to this study by the



availability of these hard factual data.

The results support the conclusion that the study was successful in obtaining the types of information needed for evaluation of the College programs in occupational education, within the limits imposed by a system of mail contacts and response rates. Furthermore, the results reflected favorably on the College program in that a majority of the former students were able to obtain full-time employment in a job related to their educational program. Favorable ratings were also reported for the contributions of the College program in providing necessary knowledge and skills for job performance, promotion, higher salaries, and job satisfaction. former students and their employers favorably rated such aspects of the College program as quality of instruction, facilities and equipment, and coverage of requisite knowledge, skills, and practical applications.

A review of the results of this study revealed the need for additional analyses. Other interesting questions were considered in the original planning for the study but had to be excluded from consideration in order to restrict this study to a scope that was manageable within the time frame and resources available. Data from the present study is being retained for further analysis.

Among the questions that might be snswered by further enslysis of the data from the current study are these:

1) What is the relationship between academic achievement in terms of credits and grades earned and success in

employment, including earning levels? 2) To what extent were the favorable results attributable to such student characteristics as age, or to factors external to the College program such as work experience prior to or concurrent with enrollment?

One disconcerting finding in this study was that graduates in some programs were earning lower salaries than non-graduates. Certainly, this raises some intriguing questions for further research but, at this point, any suggested answers would fall within the reals of speculation.

Further research is needed to determine the degree to which the results obtained in this study would change over a longer period of follow-up. It is suggested that the one or two-year period of follow-up covered in this study has not provided sufficient time for all of the former students to realize or capitalize upon their potential for advancement. Furthermore, to some degree the knowledge and skills gained in some programs cannot be fully utilized in entry level positions which some former atudents might occupy. Thus, with more experience and advancement, former students may report an even greater appreciation of the value of the educational program, on the one hand, or be more likely to make suggestions about needed improvements, on the other hand.

In conclusion, it is appropriate to end with some comments about survey research that might not otherwise be apparent. Definitive research requires not only careful

planning and the allocation of adequate resources for support services, but also an sdequate time span in which to collect and analyze the data and report the results. There is a certain minimum below which the time span cannot be reduced without restricting the rasults below a meaningful level. Also, while adequate survey research requires adequate resources, the allocation of additional resources will reach a point of diminishing return. There are constraints imposed by student mobility and response rate that must be recognized in setting reasonable goals for reporting program outcomes. An increase in the number of surveys sent to students and their employers will tend to reduce the rasponse rate. Therefore, follow-up studies should be carefully planned and coordinated.

Appendix A

FORMER STUDENT SURVEY FORMS A AND B

Office of Institutional Research MIAMI-DADE COMMUNITY COLLEGE Survey of Former Stadenis

If the address shown on the label below is incorrect, please indicate your current address in the space provided:

	Name
	:
STUDENT NAME & ADDRESS LABEL	Address
	Num cas
	* * * * * * * * * * * * * * * * * * *
Dear Former Student:	City & State
We are conducting a follow-up study of students who were in attendance at Miami- academic year. The information that you provide us will be of great value in impones. As a former student, your activities and opinions are among the most valuable	proving present programs and planning new
Employers of former students are also in a unique position to assist the College in of this survey, we would like your permission to contact your employer as shown in I	
Please be assured that the sole purpose of this follow-up is to obtain information the programs. Individual replies will be confidential and will not become a part of employer will be identified in the final report of this study.	
Please complete the items on both sides of this survey and ceturn it in the enclosed e	nvelope by December 16th.
If you have any questions about this survey, please feel free to call 274-1238.	•
Sincere	ly,
Retur)	rasiko Ir
	lanko Jr.
May we have your permission to contact the employer named on the address	label below about your program at M-DCC?
1) yes	
Hengilaver address on the label is not shore sont actually early, please indicate sont kacatana address EMPLOYER	NAME & ADDRESS LABEL
NOTE: If we do not receive your reply to this survey by December 16th, we will contact your employer	Il assume that we have your permission to
2. Are you still employed by the organization shown on the label?	
Please indicate, your job title and go to Ite	
Organization	
Address:	
Four present job litte:	
May we have your permission to contact the employer you indicated above?	



3,	What.	is your	present	statı	us? (Mark all the boxes tha	it apply to you.)	•		. ``
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	7	رب. [اله.	TOGTAIT	DO.	at all related to job			٠,	D.
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		[] 2] 3]	Unable to Not will Higher s	gel gel	a related Job Jeave this area	• •	•	•	•
		4.3	Sen aprila	18CI	100				• •
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₽.	(1)	2	4	4	I had a better chance of ge	tting into the field t	hat I wanted.		
7,	()	. z'	3)	4	I have had more opports	unity for Job promo	ntion."		
8,	· 1	2	3;	4	I have been able to perfor	m job t asks req uirin	g a higher levels of	skills.	•
8.	,	2,	3 ,	4	4 am carning a higher si	alary.	•		
10.	ıj	2	, 9 }	4,	I am more satisfied with	my Job.		•	•
Plea	ise rate	the foll	-	peci	is of your career program a		ig the boxes accordi	ng to the followin	g scale:
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11.	t'	2	4	4	Quality of instruction	•			
12,	ı,	¥	đ	4	Facilities and equipment		•		
13.	t;	5	3,	4	Coverage of skills neede	l for Job			
14.	1		,	4	Coverage of knowledge r	eeded for job	• .	•	
15.	ti.	2	3	4	Emphasis on practical a	pplications		•	₹
16.	Before	e enroll	ing for a	y e	ireer program at M-DCC, I	had:			
			Never wo		d dat a job related to my Care	er program			•
•	W				ed to my career program;	-		_	
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17.	in revi	rwing	•	recr	program at M-DCC, plea	se comment on ski	ils or areas of kno	wledge that slig	uld be added,
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THANK YOU FOR YOUR COOPERATION:



FORM B

Office of institutional Research MIAMI-DADE COMMUNITY COLLEGE Survey of Former Students

If the address shown on the label below is incorrect, please indicate your current address in the space provided:

	
	Name
	*
STUDENT NAME & ADDRESS LABEL	
	Address
, '	
	Clark State
nr Former Student:	City & State
ar rotiner statient:	
e are conducting a follow-up of students who were in attendance at ademic year. The information that you provide us will be of great values. As a former student, your activities and opinions are among the most	ue in improving present programs and planning new
	Hanning and the state of the st
mployers of former students are also in a unique position to assist the Co	oliege in examating its programs. Therefore, as a part
this survey, we would like your permission to contact your employer.	
ease be assured that the sole purpose of this follow-up is to obtain inform ograms. Individual replies will be confidential and will not become a apployer will be identified in the final report of this study.	part of your student records. Neither you nor your
ease complete the items on both sides of this survey and return it in the e	inclosed envelope by December 16th,
you have any questions about this survey, please feel free to call 274-1238.	
c	Sincerely,
	omicer ery,
	-/-/
Jett	to Marko, Jr.
F	tr Masiko, Jr. Peter Masiko, Jr.
` P	President
	. A
	. *
May we have permission to contact your present employer (or most re	econt employer if guernathy unemployed \?
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(2) 100 × (2) 100 ×	
Organization:	
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Address:	·
Your present tob title:	
rout breasts for size:	· · · · · · · · · · · · · · · · · · ·
What is your present status? (Mark all the boxes that apply to you.)	
. •	nuing school full-time
	nuing school part-time
	chool
	ity & State*
	(please specify)
(5) in military service	throuse sheerth i
'9. III IIDIIIZIFY SEFVICE '	

4. How would you becambe the relationship between your present job and your eareer program at M-DCC? [If Program and directly related to job Program only slightly related to enter another field for other reasons Use Item Is for continents or explanations.) Items 5 thrut 0 are slatements which might describe how your career program at M-DCC has helped you. Please react to these statements by marking the boxes according to the following scale: Strongly agree agree disagree strongly disagree	- 1	How	would	vou des	cribe	the relations!	hip between you	r present job a	nd vour c	areer progi	am at M-DC	Č?	*
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Appendix B
EMPLOYER SURVEY

43

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CONFIDENTIAL

Office of Institutional Research MIAMI-DADE COMMUNITY COLLEGE Employer Survey

EMPLOYER NAME & ADDRESS LABEL

Gentlemen:

We are conducting a follow-up study of students who were in attendance at Miami-Dade Community College during the 1972-73 academic year. The information that you provide us will be of great value in improving present programs and planning new ones. As an employer of a former student, your opinions are among the most valuable inputs we will receive.

Please have the immediate or other appropriate supervisor provide information regarding the employee whose hame appears on the label below. Permission from the employee has been granted to request this information. The results of this survey will be used in evaluating career programs offered by Miami-Dade Community College. The information which we are requesting will be held in strict confidence. Neither you, the employee, nor your organization will be identified in the final report of this study.

Your cooperation in completing both sides of this survey and promptly returning it in the enclosed envelope will be greatly appreciated. If you have any questions about this survey, please feel free to call 274-1238.

Sincerely,

Sincerely,

Peter Masiko, Jr.

President

1. Is the person whose name appears on the label below presently in your employ?

STUDENT NAME & ADDRESS LABEL

2. If no, was this person ever employed by your organization?

§ yes 2 no (If no, go to Item 12)



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·;	ij	[2]	Ę,	ŧ	[5] (8)	Depth of knowledge in the various areas required by the job	
	ij	2	. (6)	ia) f	िंड	Understanding of the theory behind the tasks performed	
1	ŋ	2] *	3]	įΨį́	*(S)	Performance of job skills from the beginning of employment	,
:	ij	[2]+	(3]	[4].	, t ^{S]} ,	Familiarity with any equipment required by the job, from employment	the beginn
	Í	,2]	(3)		•કો _{તુ} :	Range of knowledge required by the job	
ì	1	[2]	<u>(3)</u>	4,	Ą	Ability to communicate with others	17 2 21
ι	η	2]	• 📵	13	5.4	Ability to get along with co-workers	
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ERIC

THANK YOU FOR YOUR COOPERATION!

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Appendix E

ALPHABETICAL LIST OF PROGRAMS AND DISTRIBUTION OF SAMPLE STUDENTS AND QUESTIONNAIRE RESPONDENTS BY PROGRAM

TABLE 6. Alphabetical list of programs and program codes

			•	. •
	Program	Program. Coda	Program	Program Coda
		3		
	Accounting	76	Fire Service Administration	T2
	Aero Simulator Instrument/Technology	S2	Flight Attendent	67
	Aeronautical .Technology	51	Flight Pilot	66
	Aerospace Engineering	s5	Ganeral Office Careera	83
	Air Conditioning & Refrigeration Technology		Graphic Arts Science Tachnology	57 ·
	Air Traffic Control	S3	Home Economics	79
•	Air Traffic Control Co-operative	S4	Hotel/Restaurant/Institutional Mgmnt	\$7 <i>/</i>
	Architectural Technology	53	Instrumentation Technology	58´ .
•	Aviation Administration	90	Interior Design	87
)	Banking & Financa	R9	Landacape Development	73
	Building Construction Technology	64	Management & Supervision	59
	Business Administration	77·	Manufacturing Technology	[•] 95
	Business Information Systems	71	Marine Electronica Technology	R3
	Civil Engineering Technology	54	Marine Engineering Technology	R2
	Commercial Art & Advertising Design	R5	Marine Survay Technology	R1
	Court Reporting	75	Marketing	81
	Drafting Tachnology	65	Meteorology Analyst	R8
	Electrical Distribution Technology	70	Mortuary Science	62
	Elactromechanical Technology	R4	Police Science & Criminology	84
	Electronic Data Processing Programming	55 *	Radio/TV Broadcasting Technology	68
	Electronica Technology	56 ,	Real Estate Management & Development	R6
	Environmental Control Technology	S 6	Recreation for the Handicapped	S1
	Fashion Dasign	78	Recreational Leadership	85
	Fashion Merchandising	S 8	Sacretarial Science	. 86
	Fashion Modeling .	88	Teachers Assistant	94
	Fire Science Technology	T1	Transporation & Traffic Management	· 69

TABLE 7. Number of students in sample and student questionnaire respondents by program

	Program <u>Code</u>	Number of Students in Sample	Number of Student Questionnaire Respondents		Program Code	Number of Students in Sample	Number of Student Questionnaire Respondents
•	R1	21	3 -	Ī	بيسوب 59	33	11
	R2	31	1 .		62	81	20
•	R3	4	$\bar{\overline{2}}$		64	11	. 4
	R4	5	ō	-	. 65	24	5
	R5	39	. 6		66	89	27
	R6	-4	1	• 40	67	14	5
	R8	ì	ī		. 68	59 .	28
	R9	7	• 3		69	ģ	1
-	S1	ž	i		70	11	$\bar{\bar{z}}$
Ç	S2	3	. <u> </u>		71	6	
	83	13	' 4	4	73	12	5 .
	S 4	2	2		75	22	. 8
	S 5		Ō		76	114	36
	S 6	6	2	÷.	77	122	35
	S7	70	12		78	52	13
	58	18	3		79	4	1
	T1	12	· 2	* • •	81	41	· 14
	Ţ2	7	2	•	83	30	11
	51	29	8	• • • •	84	275	60
	52	41	15		85	16	1
	53 -	22	8	•	- 86	199	71
	54	2.4	6	•	' · 87	76	23 .
	55	<u>₹</u> 24 97	28	. ,	88	18	4
	56	139	29		90	70	<i>f</i> 28
	57	22	7	•	94	15	2
	58	5	1		95	9	. 5
			•		Total	2039	569
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Appendix F

DISTRIBUTION OF STUDENT RESPONDENTS BY CREDITS EARNED

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TABLE 8. Distribution of student respondents by credits earned

Credits Earned	Number of Students	Percent
0-11	68	12.0
12-23	63	11.1
24-35	56	9.8
36-47	40	7.0
48-59	36	6.3
60-71	198	34.8
72+	108	19.0

UNIVERSITY OF CALIF. LOS ANGELES

JUN 2 5 1976

CLEARINGHOUSE FOR JUNIOR COLLEGES

51